

Swarf protection, even against hot swarf, cost-effective



e-tubes | Series R167 | Lids openable along the inner radius, from both sides  
 e-tubes | Series R168 | Lids openable along the outer radius, from both sides

Part No. e-tubes openable along the inner radius	Part No. e-tubes openable along the outer radius	Bi [mm]	Ba [mm]	R Available bend radii											R167 [kg/m]	R168 [kg/m]
				100	125	150	175	200	225	250	300					
167.050.R.0.+	168.050.R.0.+	50	68	100	125	150	175	200	225	250	300	≈ 1.58	≈ 1.58			
167.075.R.0.+	168.075.R.0.+	75	93	100	125	150	175	200	225	250	300	≈ 1.84	≈ 1.84			
167.100.R.0.+	168.100.R.0.+	100	118	100	125	150	175	200	225	250	300	≈ 2.09	≈ 2.09			
167.115.R.0.+	168.115.R.0.+	115	133	100	125	150	175	200	225	250	300	≈ 2.24	≈ 2.24			
167.125.R.0.+	-	125	143	100	125	150	175	200	225	250	300	≈ 2.35	≈ 2.35			
167.150.R.0.+	168.150.R.0.+	150	168	100	125	150	175	200	225	250	300	≈ 2.60	≈ 2.60			
167.175.R.0.+	168.175.R.0.+	175	193	100	125	150	175	200	225	250	300	≈ 2.86	≈ 2.86			
167.200.R.0.+	168.200.R.0.+	200	218	100	125	150	175	200	225	250	300	≈ 3.11	≈ 3.11			
167.225.R.0.+	-	225	243	100	125	150	175	200	225	250	300	≈ 3.37	≈ 3.37			
167.250.R.0.+	-	250	268	100	125	150	175	200	225	250	300	≈ 3.62	≈ 3.62			

Complete Part No. with required radius (R). Example: 168.100.100.0.+

### Hot swarf up to +850°C for e-tubes

- e-tubes can repel swarf up to +850°C. Special production option with the igus® material igumid HT
  - No hot swarf melting or embedding into the chain
- More information ► [www.igus.eu/HT](http://www.igus.eu/HT)

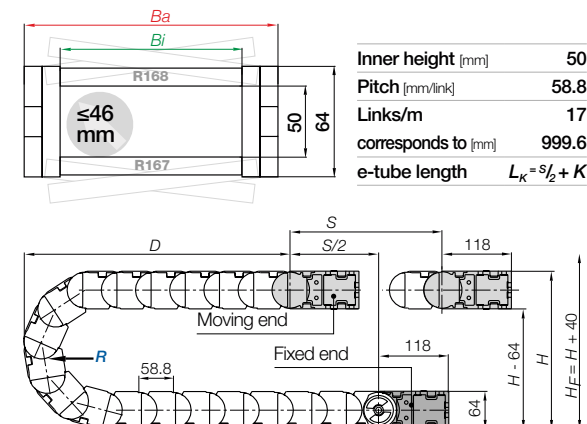
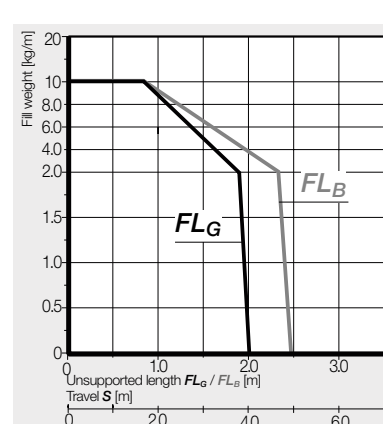


### CFU strain relief with innovative honeycomb design

- Fast filling, openable from both sides for assembly in seconds
  - Flexible honeycomb design for increased holding force
  - Tribologically optimised honeycomb design for the best hold
  - Universal use, compact, space-saving design
- More information ► Page 1422



Unsupported applications | Short travels

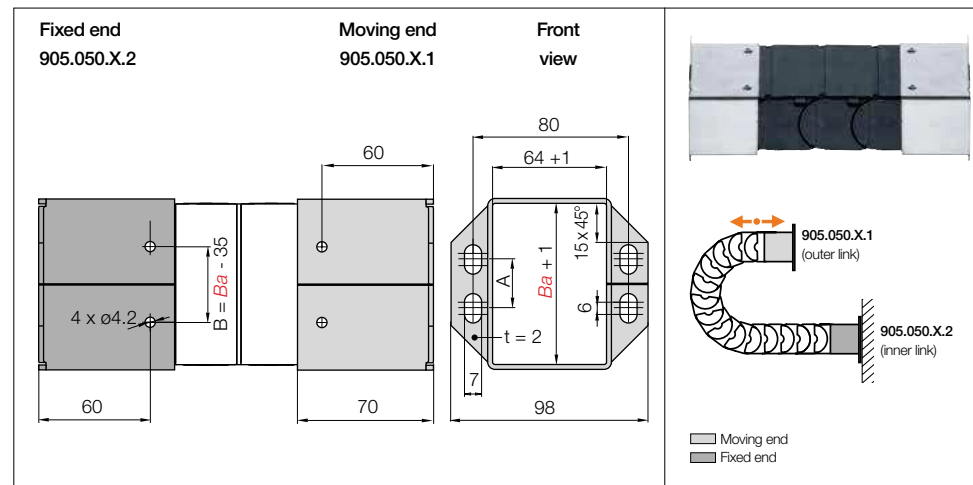
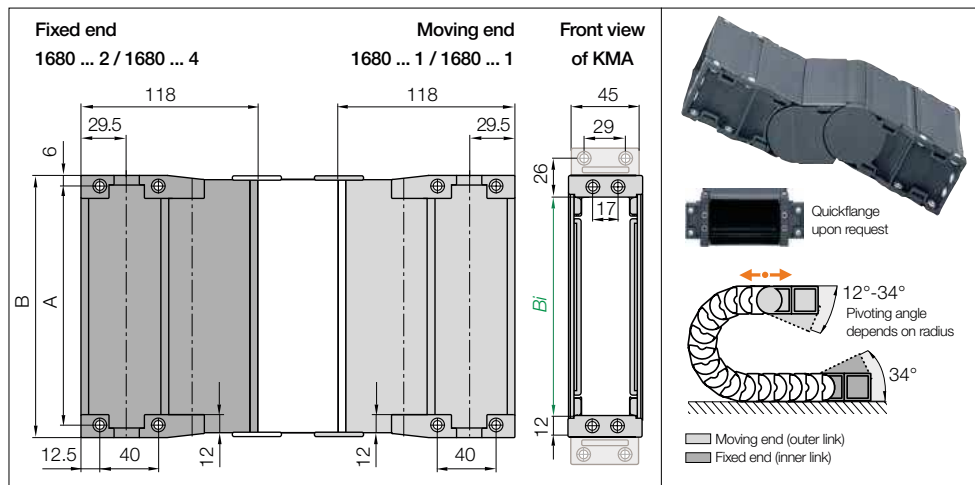


R	100	125	150	175	200	225	250	300
H	264	314	364	414	464	514	564	664
D	220	245	270	295	320	345	370	420
K	435	515	590	670	750	825	905	1,065

The required clearance height:  $H_F = H + 40\text{mm}$  (with 2.0kg/m fill weight)



**i** If a gliding application is required for a long travel, please consult igus®.



**KMA pivoting** | Recommended for unsupported applications  
**KMA locking** | Recommended for vertical hanging and standing applications

Width index	Part no. full set <b>KMA pivoting</b>	Part No. full set <b>KMA fixed end locking*</b>	A [mm]	B [mm]	Bi [mm]
050. ▶	1680.050.12	1680.050.14	62	74	50
075. ▶	1680.075.12	1680.075.14	87	99	75
100. ▶	1680.100.12	1680.100.14	112	124	100
115. ▶	1680.115.12	1680.115.14	127	139	115
125. ▶	1680.125.12	1680.125.14	137	149	125
150. ▶	1680.150.12	1680.150.14	162	174	150
175. ▶	1680.175.12	1680.175.14	187	199	175
200. ▶	1680.200.12	1680.200.14	212	224	200
225. ▶	1680.225.12	1680.225.14	237	249	225
250. ▶	1680.250.12	1680.250.14	262	274	250

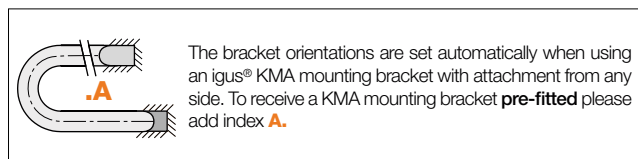
(KMA = polymer metal mounting bracket)

\*only the fixed end is locking, the moving end is pivoting

The following parts are required for attachment of the mounting brackets:

● Socket head cap bolt M5 DIN 912-8.8 Length depends on the thickness of the attachment base ● Washer 5.3 DIN 125-ST ● Hexagon nut M5 DIN 934-8

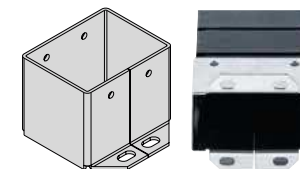
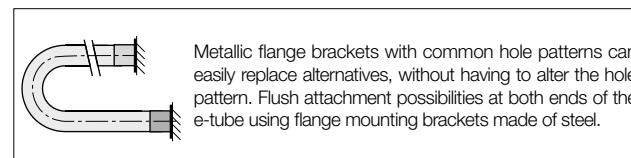
To receive full sets with pre-fitted quickflange please add index QF ▶ For example: Part No. 1680.100.12.QF. Unassembled quickflange: Part No. 1680.QF



**Steel flange, locking** | Recommended for unsupported applications

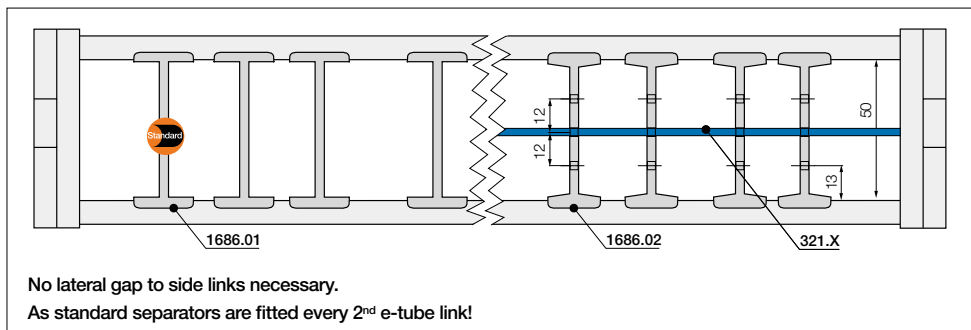
Width index	Hole pattern	Part No. full set <b>Steel flange</b>	Bi [mm]	Ba [mm]	A [mm]	B [mm]
075. ▶	68.01	905.050.1.12	75	93	30	58
115. ▶	68.02	905.050.2.12	115	133	50	98
175. ▶	68.03	905.050.3.12	175	193	100	158

Mounting only with hexagon socket DIN 912 M6 and washer DIN 125, 6.3mm



**Strain relief** e.g. clamps, tiwrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392

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**Standard separator**

unassembled	1685.01
assembled	1686.01

**Option 1 | Separators**  
**Standard separator**

For simple vertical subdivision. Offers security due to its wide base design, also when used with large cables or hoses.

**Slotted separator**

unassembled	1685.02
assembled	1686.02

**Option 2 | Full-width shelves**  
**Slotted separator**

Vertical separation. The slot allows basic vertical and horizontal shelving arrangements.

**Full-width shelf for e-tubes**

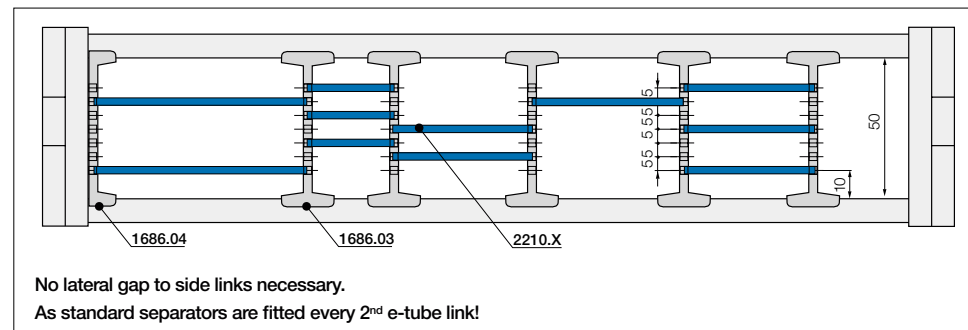
unassembled	320.X
assembled	321.X

**Full-width shelf**

This option is for applications with many small cables with similar diameters. For full-width separation.

**Full-width shelves**  
Width = X [mm]

X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
050	320.050	321.050	150	320.150	321.150	250	320.250	321.250
075	320.075	321.075	175	320.175	321.175			
115	320.115	321.115	200	320.200	321.200			
125	320.125	321.125	225	320.225	321.225			



**Slotted separator**

unassembled	1685.03
assembled	1686.03

**Option 3 | Partial shelves**  
**Slotted separator**

Allows modular shelving arrangements.

**Slotted side plate**

unassembled	1685.04
assembled	1686.04

**Slotted side plate**

Allows modular shelving right up to the side links. No clearance required!

**Shelf for e-tubes**

unassembled	2200.X
assembled	2210.X

**Shelf**

For applications involving many cables with different diameters, shelves can be fitted at different heights.

**Shelves**

Width = X [mm]

X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
018	2200.18	2210.18	043	2200.43	2210.43	088	2200.88	2210.88
023	2200.23	2210.23	048	2200.48	2210.48	099	2200.99	2210.99
028	2200.28	2210.28	058	2200.58	2210.58	124	2200.124	2210.124
033	2200.33	2210.33	068	2200.68	2210.68	149	2200.149	2210.149
038	2200.38	2210.38	073	2200.73	2210.73			

**Separator with integrated strain relief teeth**

- Can be integrated into the mounting bracket or placed at any point
- Combines strain relief and interior separation, for restricted space conditions
- Strain relief separator is easy to assemble without any screws

Part No. 1685.01.Z - more information ► From page 1424

